

L5 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1978:150599 CAPLUS
DOCUMENT NUMBER: 88:150599
ENTRY DATE: Entered STN: 12 May 1984
TITLE: ~~Anticancer substance~~, emitanin. ←
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SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp. Division of Japan. Kokai
77 79087.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
INT. PATENT CLASSIF.: C12D009-04
CLASSIFICATION: 16-2 (Fermentations)
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 53006494	A2	19780120	JP 1977-28594	19770317
PRIORITY APPLN. INFO.:			JP 1977-28594	A 19770317

PATENT CLASSIFICATION CODES:

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 53006494	IC	C12D009-04
	IPCI	C12D0009-04; C07G0011-00; A61K0039-00 [ICA]
	IPCR	A61K0039-00 [I,A]; A61K0039-00 [I,C*]; C07G0011-00 [I,A]; C07G0011-00 [I,C*]

ABSTRACT:

21 A culture broth of ~~Tricholoma matsutake~~ or Pleurotus spedoleucus is treated with an ion-exchange resin, ultrafiltered, fractionally precipitated by an organic solvent, acid, and a quaternary NH₄⁺ salt, and subjected to chromatog. to yield an anticancer substance, emitanin (I) [64641-39-0]. Thus, mycelium of ~~P. matsutake~~ IFO 6915 was cultured at 24° for 3 wk on a medium (pH 4.5) containing Ebios 0.5 and glucose 2%. The culture supernatant was decolorized with active C and mixed with 3 vols. of alc. to precipitate crude I. ~~The mycelium was~~
29 ~~also extracted with hot water~~ and I was also precipitated by addition of alc. The crude I was purified by column chromatog. on Duolite A-7 (H⁺), alc. precipitation, and dialysis. I-A [64641-40-3] (31 mg) and I-B [64641-41-4] (10 mg) were separated by adsorption on DEAE-Sephadex; I-B was adsorbed.

SUPPL. TERM: neoplasm inhibitor emitanin; Tricholoma emitanin; Pleurotus emitanin
INDEX TERM: Neoplasm inhibitors (emitanin)
INDEX TERM: Pleurotus spedoleucus Tricholoma matsutake (emitanin from)
INDEX TERM: Fermentation (emitanin, by Pleurotus or Tricholoma)
INDEX TERM: 64641-39-0 64641-40-3 64641-41-4
ROLE: BIOL (Biological study) (neoplasm inhibitor from fungi)